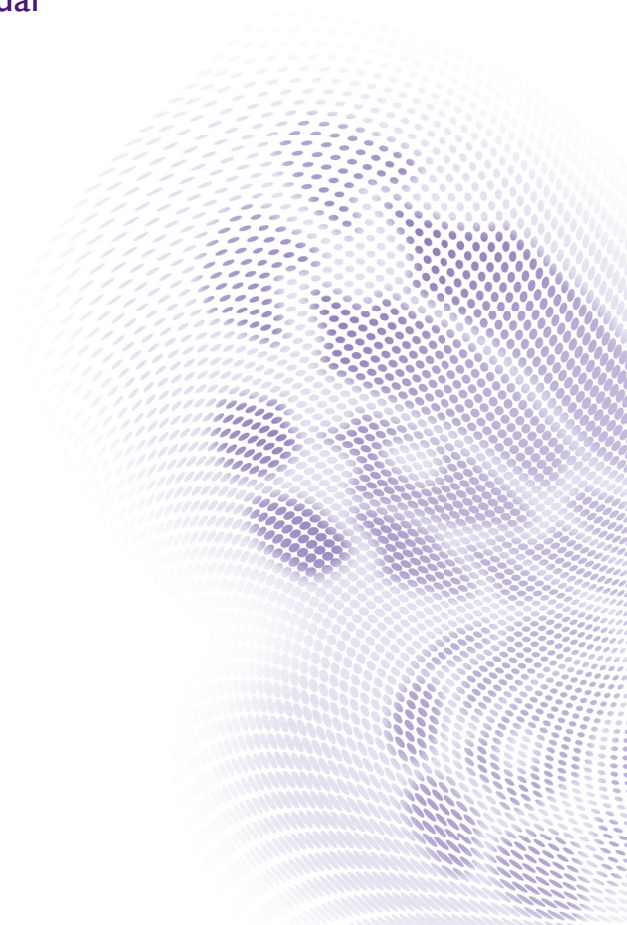




GI  
Digital Camera  
User Manual



## Copyright

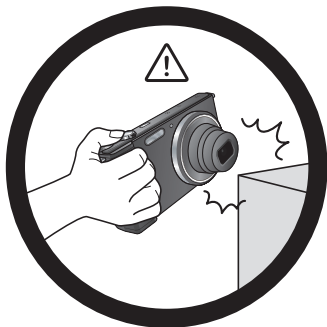
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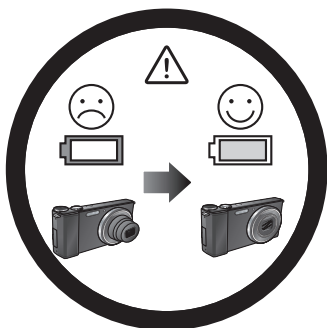
This user manual aims to provide the most updated and accurate information to customers, and thus all contents may be modified from time to time without prior notice. Please visit <http://www.benq.com> for the latest version of this manual.



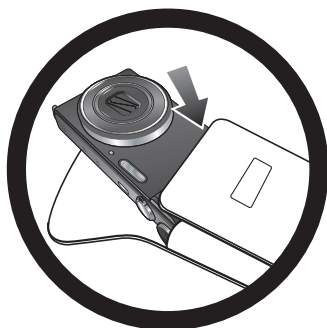
Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.



To avoid accidental falling, please attach the neck strap to the camera and always put the camera around your neck.



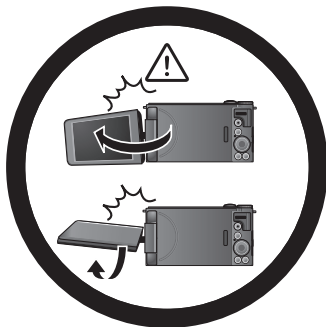
If the battery is suddenly depleted and caused the lens to fail or retract, please carefully protect the lens to avoid collision and insert battery with full power ASAP.



When the camera is not in use, always turn the power off. Plus, before storing the camera in its case, make sure the lens has retracted successfully and turn off the camera. If you do not intend to use the camera for a long time, please remove the battery from the camera and store the battery properly.



Keep your camera away from sharp objects and avoid collision.



When adjusting the display, **DO NOT** exceed the maximum twist or rotate angle. If it stops in the direction where you are rotating or twisting it, **DO NOT** force it further to avoid damage to the display hinge.



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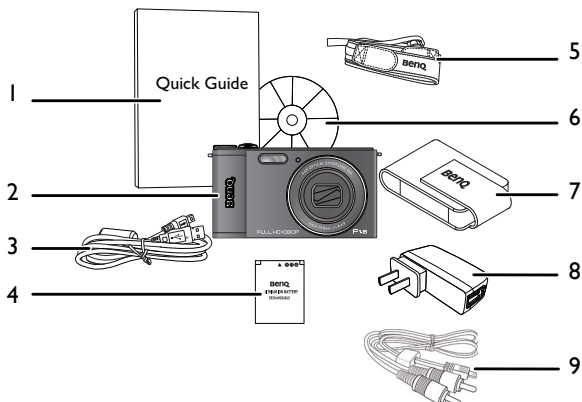
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# Touring the camera

## Checking the package contents

Carefully unpack your package box and ensure that you have the following items.



1. Quick Guide
2. Digital camera
3. USB cable
4. Rechargeable lithium-ion battery
5. Neck strap (optional)
6. Software & User Manual CD
7. Pouch (optional)
8. AC adapter
9. AV cable



- All pictures, screen captures, and icons used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

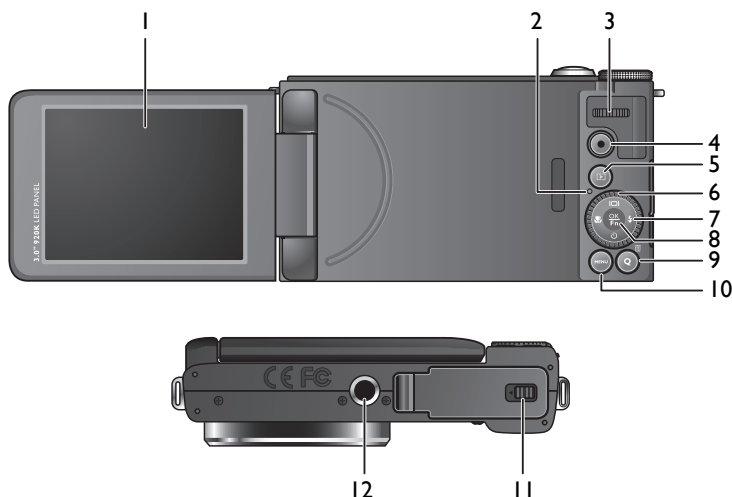
# Camera overview

## Front view



Item	Description	Page reference
1	USB port	<a href="#">78</a>
2	HDMI port	<a href="#">79</a>
3	Strap eyelet	<a href="#">17</a>
4	Mode Dial	<a href="#">24</a>
5	Shutter	<a href="#">30</a>
6	Zoom lever	<a href="#">31</a>
7	Power button (ON / OFF)	<a href="#">22</a>
8	Flash	<a href="#">33</a>
9	AF Assist Lamp / Self-timer LED indicator	<a href="#">12</a> , <a href="#">56</a>
10	Stereo microphone	--
11	Speaker	--
12	Lens	--

## Rear and bottom views



Item	Description	Page reference
1	LCD display	21
2	Status LED	12
3	Jog Dial	25
4	Record button (●)	70
5	Playback button (⏮)	32
6	Wheel Dial	26
7	4-way buttons	26
8	Function/OK button ( $\frac{OK}{Fn}$ )	26
9	Q (Quick Menu) key (Q)	29
10	Menu button (MENU)	27
11	Battery/card cover	18
12	Tripod mount	--

## LED indicator

Indicator	State	Description
Status LED (Green)	Off	<ul style="list-style-type: none"> <li>• Power off.</li> <li>• Charging complete.</li> </ul>
	On	<ul style="list-style-type: none"> <li>• Power on.</li> <li>• Enter Sleep (power-saving) mode.</li> <li>• Card full.</li> <li>• Error message.</li> <li>• Enter USB mode.</li> </ul>
	Blinking	<ul style="list-style-type: none"> <li>• Playback image (decompression).</li> <li>• Flash charging.</li> <li>• Image processing (compression).</li> <li>• Movie recording is in progress.</li> <li>• File transfer (copy to card) is in progress.</li> <li>• USB communication/transfer is in progress.</li> <li>• Battery charging.</li> <li>• Charging error.</li> </ul>
Self-timer LED (Red)	Blinking	<p>The self-timer function is activated.</p> <p>10-sec. delay: blinks slowly after pressing the shutter, and then blinks quickly for 2 seconds before taking picture.</p>



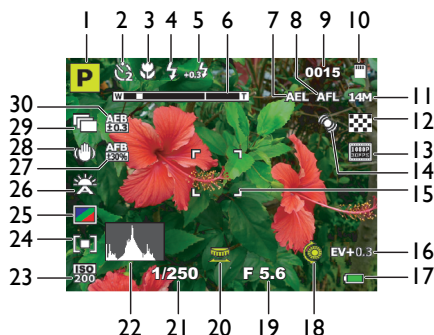
It is normal for the camera to become warm during operation, because the camera casing might conduct heat.



## LCD display indicator

Display information regarding your camera settings as well as the live image of your subject before taking a photo or recording a video.


### Capture mode




Item	Description	Page reference
1	Shooting mode	<a href="#">24</a>
2	Self-timer mode	<a href="#">34</a>
3	Focus mode	<a href="#">35</a>
4	Flash mode	<a href="#">33</a>
5	Flash EV	<a href="#">52</a>
6	Zoom status	<a href="#">31</a>
7	AE Lock	--
8	AF Lock	--
9	Number of shots available	--
10	Storage media	--
11	Image size	<a href="#">55</a>
12	Image quality	<a href="#">55</a>
13	Movie size	<a href="#">72</a>
14	Motion detection	<a href="#">59</a>

Item	Description	Page reference
15	AF area	--
16	Exposure value (EV)	36
17	Battery status	16
18	Wheel dial	25
19	Aperture value	--
20	Jog dial	25
21	Shutter speed	--
22	Histogram	--
23	ISO	51
24	AE metering	51
25	Color mode	52
26	White balance	50
27	AFB (Auto Focus)	--
28	O.I.S. (Stabilizer)	57
29	Capture mode	53
30	AEB (Auto Exposure Bracketing)	49




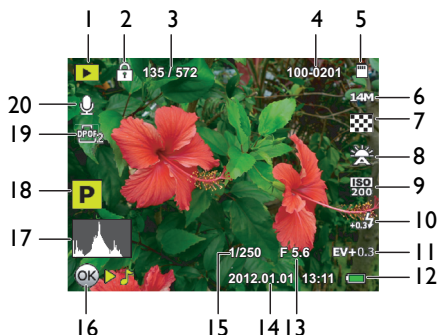
- The shown icons vary depending on the type of shooting mode.
- In Capture mode, press  to toggle among the 4 display modes (standard, complete, guideline, and none).
- Use the guideline display mode to improve your composition by placing subjects on at least one of the intersections of these 4 imaginary lines.
- While the shutter is pressed down halfway, the AF area color changes to green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.

## Playback mode

Press  to switch to **Playback** mode.







If the camera is turned off, you can directly switch to Playback mode by pressing and holding .



Item	Description	Page reference
1	Playback mode	<a href="#">32</a>
2	Protect tag	<a href="#">62</a>
3	Total number of recorded files / all images	--
4	Folder / File number	--
5	Storage media	--
6	Image size	<a href="#">55</a>
7	Image quality	<a href="#">55</a>
8	White balance	<a href="#">50</a>
9	ISO	<a href="#">51</a>
10	Flash EV	<a href="#">52</a>
11	Exposure value (EV)	<a href="#">36</a>
12	Battery status	<a href="#">16</a>
13	Aperture value	--

Item	Description	Page reference
14	Date stamp	<a href="#">58</a>
15	Shutter speed	--
16	Key guide (Press the indicated button to play the voice memo)	--
17	Histogram	--
18	Shooting mode	<a href="#">24</a>
19	DPOF tag	<a href="#">65</a>
20	Voice memo tag	<a href="#">64</a>

## Battery status

Icon	Description
	Battery power is full.
	Battery power remains adequate.
	Battery power is low.
	Battery power is very low. You should replace the battery ASAP.

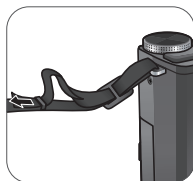
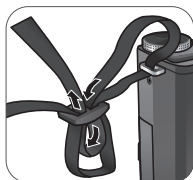
# Preparing the camera for use

This section will guide you on how to prepare the camera before its initial use.

## Attaching the camera strap

To attach the lens and neck straps to your camera, do the following:

1. Insert one end of the neck strap through the strap eyelet.
2. Route it through the buckle as the inner loop.
3. Route the other end of the neck strap to the other strap buckle to secure it.  
Follow the above steps to attach the other side of the neck strap.
4. Once complete, make sure the straps are tight.

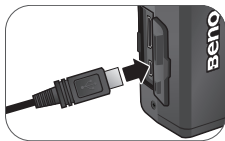


Wrapping the strap around your neck is dangerous. Refrain children from playing with the strap.

## Charging the battery

You must charge the battery before using the camera for the first time.

1. Open the USB/HDMI port cover.
2. Connect the end of the smaller plug of the USB cable to the camera.
3. Connect the other end of the USB cable to the AC adapter.
4. Plug the AC adapter to a wall outlet to start charging.



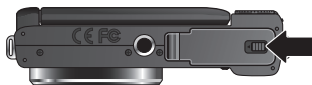
- Actual charging time depends on current battery capacity and charging conditions.
- You can also charge the battery via PC.
- Only use the supplied 5W adapter.

## Installing and removing the battery

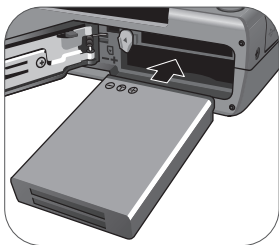
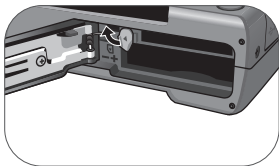
Use only the specified rechargeable lithium-ion battery for the camera, and always turn off the camera before removing the battery.

To install the battery:

1. Slide the battery/card cover to the left to release and open it.
2. Push and hold the battery latch to the left.



3. Fully insert the battery in the correct direction by matching the polarity label on the battery slot.

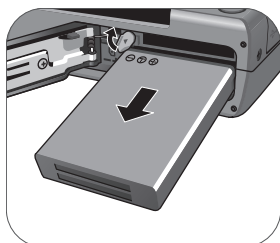


4. Close the battery/card cover and then slide it to the right to lock it in place.



To remove the battery:

1. Slide the battery/card cover to the left to release and open it.
2. Push the battery latch to the left to release the battery and remove it from the battery slot.



3. Close the battery/card cover and then slide it to the right to lock it in place.



- Turn off the camera before removing the battery.
- Use only the specified battery type. Using other battery type may damage the camera and invalidate the warranty.
- Ensure that the battery is inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long time.
- The battery may be warm after being used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its battery warm by holding it inside your jacket or another warm protective environment.

## Installing and removing an SD card

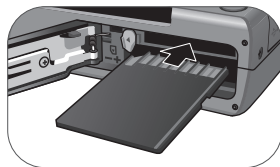
The camera comes with internal memory for storing captured images or video clips. You can also add an SD card to store more files.

To install an SD card:

1. Slide the battery/card cover to the left to release and open it.



2. Insert an SD card in the correct direction.



3. Close the battery/card cover and then slide it to the right to lock it in place.






To remove an SD card:

1. Slide the battery/card cover to the left to release and open it.
2. Lightly press the edge of the memory card to eject.
3. Close the battery/card cover and then slide it to the right to lock it in place.



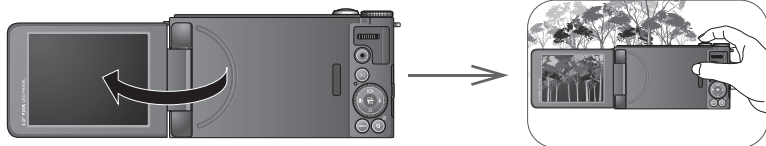
Before initial use of an SD card, please format the card first by pressing **MENU**

>  > **Manage Memory** >  $\frac{OK}{Fn}$  /  > **Format** >  > **Yes** >  $\frac{OK}{Fn}$ .

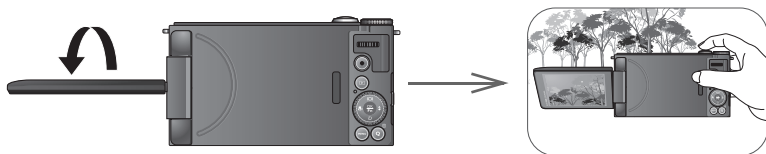


## Using the LCD display

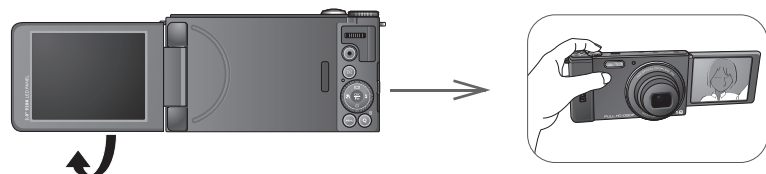
Flip the LCD display outwards 180° to fully open.



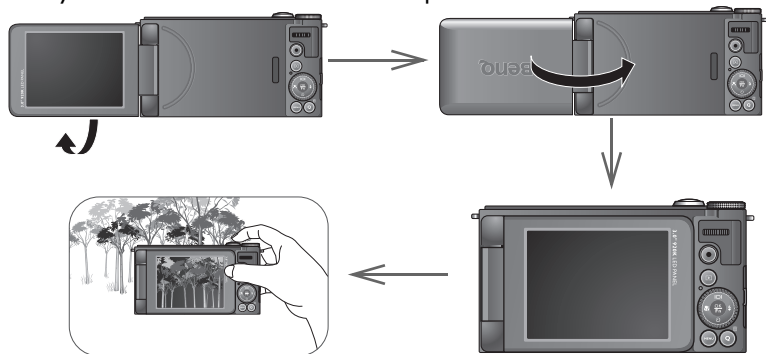
- For high- or low-angle photography, twist it down at the appropriate angle. You can rotate the display to a maximum of 90° downward.



- For self portrait, rotate it up at the appropriate angle. You can twist the display to a maximum of 180° upward.



- In addition to flipping the LCD display, you can rotate it 180° upward and fold it fully to the back of camera to secure its position.





- To avoid damage to the display hinge or LCD display, do not twist the display more than the angle allowed or place excessive force on the hinge or display.
- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.

## Turning the Power On and Off



Before turning on the camera, be sure to open the LCD display. See ["Using the LCD display" on page 21](#).

There are two ways to turn on the camera:

- Press ON / OFF.

The zoom lens extends and the camera is turned on in **Capture** mode.










- Press and hold .

The camera is turned on in **Playback** mode, and the lens is not extended.

## Setting the OSD language

Selects the language version shown on the screen.

To select a language:










1. Press **MENU** > , and then press  $\frac{OK}{Fn}$  or . (Step 1 is needed only after the initial setting is complete.)
2. Use the wheel dial or press  or  to select **Language**, and then press  $\frac{OK}{Fn}$  or .
3. Press , , , or  to select the desired language.
4. Press  $\frac{OK}{Fn}$  to set the language.

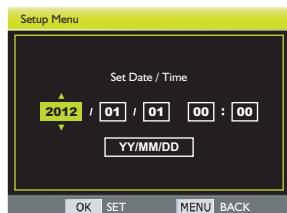


## Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time are recorded when a video or image is captured.

To set date and time:

1. Press **MENU** > , and then press  $\frac{OK}{Fn}$  or . (Step 1 is needed only after the initial setting is complete.)
2. Use the wheel dial or press  or  to select **Date & Time**, and then press  $\frac{OK}{Fn}$  or .
3. Press  or  to adjust the date, time and date format. Press  or  to move to another field as needed.
4. Press  $\frac{OK}{Fn}$  to confirm the settings.



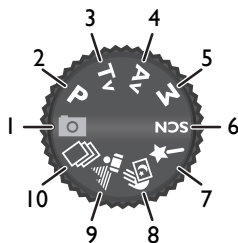
# Operating the camera


## Main features

Familiarize yourself with the controls below before you start using the camera.

## Mode dial

Rotate the mode dial to select one of the ten shooting modes:



No.	Icon	Mode	Description
1		Auto (Smart Scene)	The camera detects the shooting condition and automatically switches to the appropriate scene mode. See <a href="#">"Auto (Smart scene) mode" on page 37</a> for details.
2	<b>P</b>	Program	You can configure the appropriate settings to suit your shooting environment. See <a href="#">"Program mode" on page 37</a> for details.
3	<b>Tv</b>	Shutter Priority	You can choose a shutter speed, while the aperture value is automatically determined by the lighting condition of the subject. See <a href="#">"Shutter Priority mode" on page 38</a> for details.
4	<b>Av</b>	Aperture Priority	You can choose an aperture value, while the shutter speed is automatically determined by the lighting condition of the subject. See <a href="#">"Aperture Priority mode" on page 38</a> for details.
5	<b>M</b>	Manual	Lets you set both aperture and shutter speed manually. See <a href="#">"Manual mode" on page 39</a> for details.

No.	Icon	Mode	Description
6	<b>SCN</b>	Scene Mode	Lets you select the desired scene mode that suits your shooting environment. See <a href="#">"Scene mode" on page 39</a> for details.
7		Filter	Lets you select the desired filter to add to the image you want to take. See <a href="#">"Filter mode" on page 47</a> for details.
8		Handheld Night Shot	Lets you capture photos in a low-light environment, such as in the evening or at night. See <a href="#">"Handheld Night Shot mode" on page 48</a> for details.
9		Background Defocus mode	Lets you capture an image that makes a subject stand out against a blurred background. See <a href="#">"Background Defocus mode" on page 48</a> for details.
10		Continuous Burst	Lets you capture a series of shots with a single press of the shutter. See <a href="#">"Continuous Burst mode" on page 48</a> for details.

## Jog Dial

Use the jog dial to change the following settings:

### In Capture mode

- Program mode: Adjusts the flexible program ( 37).
- Aperture Priority mode: Adjusts aperture value ( 38).
- Shutter Priority/Manual mode: Adjusts shutter speed ( 38).
- Scene/Filter mode: Switches to available shooting mode ( 39, 47).

## Wheel Dial

Use the wheel dial to do the following:

### In Capture mode

- Manual mode: Adjusts aperture value ( 38).
- Aperture Priority/Shutter Priority/Program/Filter mode: Adjusts EV compensation value ( 36).

### In Playback mode

- Viewing file: Views previous/next file ( 32).

### In Menu mode

- Item selection: Chooses an option ( 27).

## 4-way buttons

Use the 4-way buttons to do the following:

### 1. Left/Focus:

- Scrolls left on item selection.
- Returns to previous screen.
- Toggles between different focus modes.  
See ["Selecting the focus mode" on page 35](#) for details.

### 2. Up/Display:

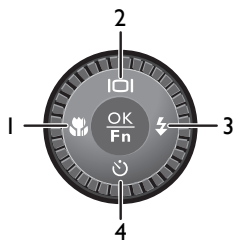
- Scrolls up in menus.
- Toggles between different display modes.

### 3. Right/Flash:

- Scrolls right on item selection.
- Enters submenu.
- Confirms selection.
- Selects a flash mode. See ["Using the flash" on page 33](#) for details.

### 4. Down/Self-timer:



- Scrolls down in menus.
- Selects a self-timer mode. See ["Using the self-timer" on page 34](#) for details.



## Function/OK button

Press  $\frac{OK}{Fn}$  to do the following:

### In Capture mode

- Adjust EV compensation: Confirms the setting ( [21](#)).
- Scene/Filter mode: Confirms the mode selection ( [21](#)).

### In Menu mode




- Item selection: Confirms the selection or displays the submenu. ( [21](#)).

## Menu button

Press **MENU** to access the menu for the selected shooting or playback mode.

Use the wheel dial or 4-way buttons to navigate the menus. Press **OK/Fn** to confirm the selection.

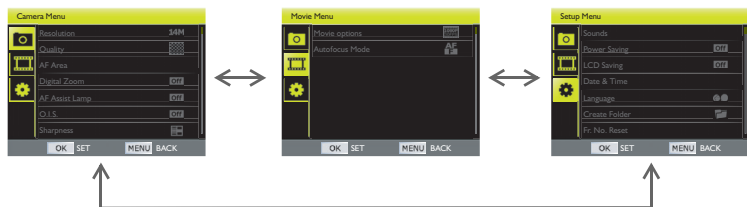
### Selecting menu tabs

In **Camera** menu, there are three types of menu tabs:  ,  ,  .

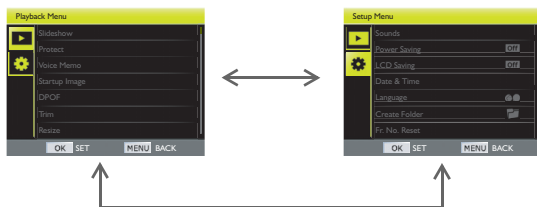
In **Playback** menu, there are two types of menu tabs:  ,  .

- If one of these tabs is highlighted, use the wheel dial or press **|◁|** or **⏏** to switch between tabs.

### Camera menu








### Playback menu

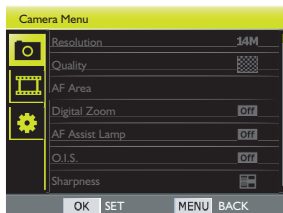






- Otherwise, press **MENU** or  repeatedly to highlight the tab.





## Navigating menus



1. Press **MENU**.
2. Press , then use the wheel dial or press  or  to select a menu option, and then press  or  to enter the selected menu.




3. Use the wheel dial or press  or  to an option, and then press  or  to enter the submenu.



4. Use the wheel dial or press  or  to select the desired setting.

Press  or  to move to another column as needed.

5. Press  to confirm.











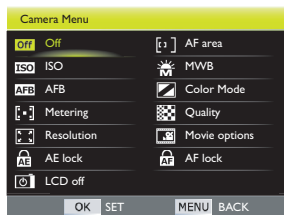


## Q key

### In Capture mode

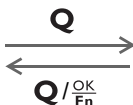
To customize Q key as a hot key for specific shooting mode, do the following:



1. Set the mode dial to the desired shooting mode. See ["Mode dial" on page 24](#) for details.
2. Press **MENU** > .
3. Use the wheel dial or press  or  to select **Q key**, and then press  $\frac{OK}{Fn}$  or .
4. Use the wheel dial or press , , , or  to select the desired Q key setting.
5. Press  $\frac{OK}{Fn}$  to confirm.
6. Press **MENU** to exit the menu mode.



The function is only available in P/Tv/Av/M mode.

### Customized Q key (Color Mode)



Use the wheel dial or press  or  to select the desired setting.

### In Playback mode

Press **Q** to delete the file. See ["Deleting files" on page 32](#) for details.

## Using the shutter

- Press the shutter halfway to automatically adjust focus and exposure.  
Once the focus is set, the focus frame color will turn green.




- Press the shutter down fully to capture the image.




To prevent your images from being blurred, always hold the camera steadily while pressing the shutter. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.



## Basic operation

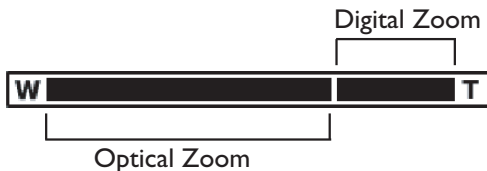
The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

1. Flip to open the LCD display and press **ON / OFF** to turn the power on.
2. Set the mode dial to  or other desired shooting mode. See ["Mode dial" on page 24](#) for details.



Remember to follow the on-screen display or slide the Zoom lever to  for instructions (wherever available). Next, press the corresponding buttons to access and set more options. At any time, you can cancel the current operation by pressing **MENU** to return to your previous step.

3. Adjust the LCD display position properly and compose the image.  
Use the **Zoom** lever to zoom-in/zoom-out on the subject.
4. Press the shutter halfway to set automatic focus.
  - Once the focus is set, the focus frame color will turn green (focused). If the focus frame color is red and you press the shutter down, it might result in a blurred photo.
5. Press the shutter down fully to capture the image.
6. To switch to Movie mode, press . The video recording automatically starts.  
Press  again to stop video recording.










- During zoom-in/out, there is a separator in the zoom bar between **T** and **W**. For best image quality, it is recommended to use optical zoom only by keeping the magnification within **W** and the separator.
- Flash is automatically turned off in Movie mode.
- In Movie mode, the camera records both sound and video. The recording time is continuous, but recording will stop once the memory card space is full or up to 25 minutes.
- At any time, you can press **ON / OFF** to turn off the camera.

## Viewing and deleting files











### Viewing files

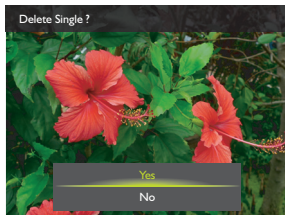
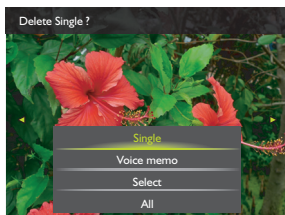
In **Playback** mode, you can view captured images or recorded videos.

1. Press .
2. Use the wheel dial or press  or  to view other images/videos.
  - Slide the **Zoom** lever to  T  to zoom-in on a captured image.
  - Slide the **Zoom** lever to  W  side to view 9-thumbnail images on the screen.

### Deleting files

You can delete the unnecessary files.




1. Press .
2. Press .
3. Press  or  to select the file that you want to delete.
4. Use the wheel dial or press  or  to select the deletion method and press  to confirm.
  - **Single:** deletes the current file.
  - **Voice memo:** deletes only the attached voice memo on the current file.
  - **Select:** deletes the selected files. See ["Selecting files for deletion" on page 33.](#)
  - **All:** deletes all files.
5. Press  or  to select **Yes** and press  to confirm the file deletion.







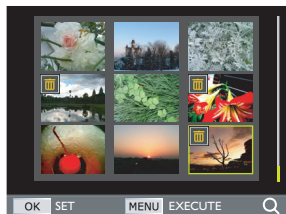
## Selecting files for deletion

1. Use the wheel dial or press , , , or  to locate the file you want to delete.






Slide the Zoom lever to  to view the image in full screen. Slide the Zoom lever to   to return to thumbnail view.



2. Press  to mark the file.
3. When the file selection is complete, press **MENU**.
4. Press  or  to select **Yes** and press  to confirm the file deletion.







## Using the flash

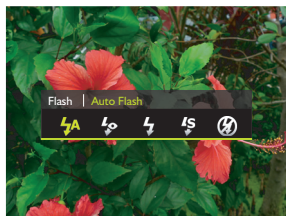
The flash offers additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
	<b>Auto Flash</b>	The flash fires automatically based on the photographic conditions.
	<b>Auto Anti Red-eye</b>	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
	<b>Force On</b>	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.

Icon	Mode	Description
	<b>Slow Sync</b>	Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment.
	<b>Force Off</b>	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

To select a flash mode:




1. Set the mode dial to the desired shooting mode.
2. Press  to enter the Flash mode menu.
3. Use the wheel dial or press  or  to select your desired flash mode.
4. Press  to confirm.






The flash mode is not available in Continuous Shooting, Background defocus, and Handheld Night Shot modes.

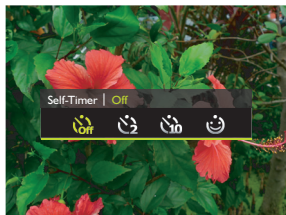
## Using the self-timer

This feature allows you to set the self-timer settings.

Icon	Mode	Description
	<b>Off</b>	Takes one picture at a time.
	<b>10 Sec. / 2 Sec.</b>	Automatically takes a picture after 2 or 10-second delay. This mode is useful when you want to be part of the picture.
	<b>Smile</b>	Takes one picture at a time if the camera detects a smile using face detection.

To enable self-timer mode:






1. Set the mode dial to the desired shooting mode.
2. Press  to enter the Self-timer mode menu.
3. Use the wheel dial or press  or  to select your desired self-timer mode.
4. Press  $\frac{OK}{Fn}$  to confirm.






The self-timer mode is not available in Continuous Shooting, Background defocus, and Handheld Night Shot modes.

## Selecting the focus mode

This feature allows you to define the focus type when capturing an image or a recording a video clip.

Icon	Mode	Description
	<b>Auto Focus</b>	Adjusts the focus automatically.
	<b>Macro</b>	Takes a close-up shot.
	<b>Object tracking</b>	Focuses on the position of moving objects simultaneously.
	<b>Face tracking</b>	Focuses on the position of faces simultaneously.
	<b>Manual focus</b>	Adjusts the focus manually.

To select the focus mode:

1. Set the mode dial to the desired shooting mode.
2. Press  to enter the Focus mode menu.
3. Use the wheel dial or press  or  to select your desired focus mode.



- Press  $\frac{OK}{Fn}$  to confirm.

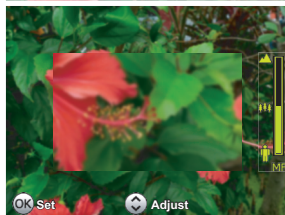
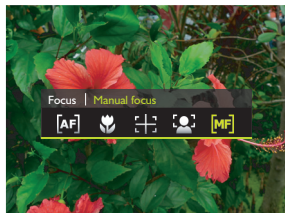


The focus mode is not available in Auto mode.

## Using manual focus

To manually adjust the focus on the subject, do the following:

- Set the mode dial to the desired shooting mode.
- Press  $\text{AF}$  to enter the Focus mode menu.
- Use the wheel dial or press  $\text{AF}$  or  $\text{MF}$  to select **Manual focus**.
- Press  $\frac{OK}{Fn}$  to confirm the selection.
- Press  $\text{L}$  or  $\text{M}$  to select to manually adjust the focus and press  $\frac{OK}{Fn}$  to confirm the setting.



## Adjusting EV setting

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.











- Set the mode dial to **P**, **Av**, **Tv**, or  $\text{★}$ .
- Use the wheel dial to select the appropriate setting.
- Press  $\frac{OK}{Fn}$  to confirm the setting.






# Using Mode Dial in the capture mode

## Auto (Smart scene) mode


In this mode, the camera automatically selects the best scene mode from Auto () , Portrait () , Landscape () , Backlight () , Night Portrait () , Night Scene () , Macro () , Sports () , Text () , and Foliage () .

1. Set the mode dial to .
2. Press the shutter halfway to set automatic focus. The selected shooting mode is displayed in the top left corner of the screen.
3. Press the shutter to capture an image.

## Program mode

In this mode, the camera automatically sets different combinations of the shutter speed and aperture value. However, you can adjust those settings via Flexible program.


1. Set the mode dial to **P**.

If the flexible program is activated, a  icon appears on the screen. Do the following to adjust the shutter speed and aperture value:

- Rotate the jog dial to the right when you want to blur the background detail or when you want to capture fast moving subjects.
- Rotate the jog dial to the left when you want to increase depth of field or when you want to emphasis the motion of a subject.



To cancel the flexible program, you can do one of the following:

- Rotate the jog dial until a  appears on the screen.
  - Select another shooting mode.
  - Turn off the camera.
2. Press the shutter halfway to set automatic focus.
  3. Press the shutter to capture an image.

## Shutter Priority mode

Shutter priority is often used when shooting moving subjects. In general, use a shorter shutter speed to catch a fast-moving object.

1. Set the mode dial to **Tv**.
2. Use the jog dial to adjust the shutter speed and press  $\frac{OK}{Fn}$  to confirm the setting.
3. Press the shutter halfway to set automatic focus.
4. Press the shutter to capture an image.

## Aperture Priority mode

Aperture priority is often used when shooting static subjects or emphasizing the depth of field. In general, use a smaller aperture if a greater depth of field is needed.

1. Set the mode dial to **Av**.
2. Use the jog dial to adjust the aperture value and press  $\frac{OK}{Fn}$  to confirm the setting.
3. Press the shutter halfway to set automatic focus.
4. Press the shutter to capture an image.



- Available values are F1.8, F1.9, F2.0, F2.2, F2.5, F2.8, F3.2, F3.5, F4.0, F4.5, F5.0, F5.6, F6.3, F7.0, F8.0.
- Some of the above aperture values may not be available, depending on the zoom position.

## Manual mode

You can specify the aperture value and shutter speed in Manual mode.

1. Set the mode dial to **M**.
2. Adjust the settings.
  - Use the wheel dial to adjust the aperture value and press  $\frac{OK}{Fn}$  to confirm the setting.
  - Use the jog dial to adjust the shutter speed and press  $\frac{OK}{Fn}$  to confirm the setting.



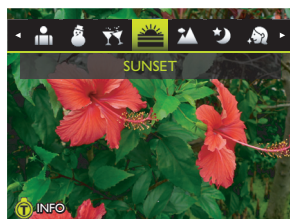
3. Press the shutter halfway to set automatic focus.
4. Press the shutter to capture an image.

## Scene mode

Select one of the following scene modes to fit your shooting condition.

To select a scene mode:

1. Set the mode dial to **SCN**.
2. Use the jog dial to select the desired scene mode.
3. Press  $\frac{OK}{Fn}$  to confirm the setting.



Slide the Zoom lever to  $\bullet T Q$  to view information on the selected scene mode.

## Portrait

Makes the subject (usually a person) stand out with smooth and natural-looking skin tones.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Portrait** (👤).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Lomo

Creates a lomo-like effect by adding over saturated colors, dark corners, and so on.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Lomo** (📷).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Fisheye

Simulates a fisheye lens effect and creates a distorted hemisphere-like image.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Fisheye** (👁).



3. Press the shutter to capture an image.  
The Fisheye effect will be applied to this picture immediately.







Before



After

## Toy

Simulates a shallow depth of field by gradually blurring the top and bottom areas of a composition.

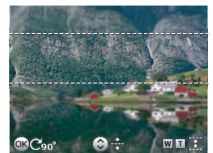
1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Toy** (  ).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press **Q** to compose the image.
  - Press **|OI** or  to adjust the frame position.
  - Slide the **Zoom** lever to  **W**• or • **T**  to make the frame size narrower/wider.
  - Press  $\frac{OK}{Fn}$  to switch to vertical frame display.



Preview screen



Compose screen



Adjust frame location



Switch to vertical  
frame display




Adjust frame size

5. Press the shutter to capture an image.



## Landscape


Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Landscape** ()
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Sports


Uses a high shutter speed to capture objects in motion.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Sports** ()
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Backlight


Increases exposure (by turning on the flash) when light illuminates the subject from behind.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Backlight** ()
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Candlelight

Makes a picture look warm, and thus captures the mood under candle light source. Flash is always off.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Candlelight** ()
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Night Scene

Captures photos in a low-light environment, such as in the evening or at night.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Night Scene** (🌙).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Night Portrait

Shoots night scenes and portraits clearly. Keep the camera steady or use a tripod while using this mode.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Night Portrait** (👤🌙).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Snow

Used under a very bright light environment such as snow scenes.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Snow** (❄️).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Firework

Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.

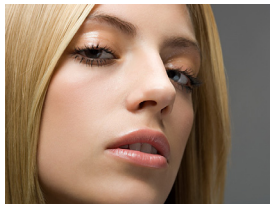
1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Firework** (💣).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Beauty Enhancer

Enhances the tone of skin so that the facial skin appears smooth.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Beauty Enhancer** (👤).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Party

Captures the party atmosphere usually under indoor light source.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Party** (🎉).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Pets

Captures your pets. Shoot from their eye level.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Pets** (🐱).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Sunset

Captures the warmth and atmosphere (represented by hue) of sunrise or sunset.


1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Sunset** (🌅).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.





## Text


Improves clarity & contrast when taking a close-up picture of documents.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Text** (  ).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## Foliage


Takes a clear and vivid picture of flowers or plant leaves by emphasizing their saturation and sharpness.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **Foliage** (  ).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## HDR

Increases the dynamic range and enhances the details of dark areas.

1. Set the mode dial to **SCN**.
2. Use the jog dial to select **HDR** (  ).
3. Press  $\frac{OK}{Fn}$  to confirm the setting.
4. Press the shutter to capture an image.



## 360° Panorama

Shoots multiple pictures and the camera automatically combines pictures into panoramic images.

1. Set the mode dial to **SCN**.

2. Use the jog dial to select

**360° Panorama** (📷).

3. Press  $\frac{OK}{Fn}$  to confirm the setting.

4. Press and hold the shutter.

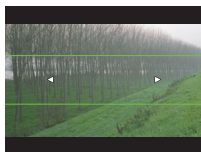
5. Move the camera slowly towards the desired shooting direction.

The camera starts shooting when it detects the panorama direction.

6. Pan the camera horizontally and follow the shooting direction shown on the screen.



Preview screen



Move the camera to start shooting








Guideline bar indicates the current shooting shooting point


7. Release the shutter and panoramic images are recorded.

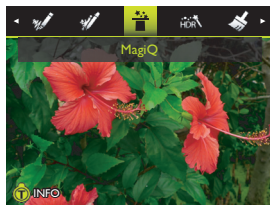
## Filter mode

Select one of the following filter modes to add into your shooting condition.

Icon	Mode	Description
	<b>MagiQ</b>	Enhances the shadow and highlights the details of an image.
	<b>HDR-Art</b>	Applies HDR ("HDR" on page 45) photography and transforms it into artistic effect in the photo.
	<b>Oil Painting</b>	Simulates oil painting brushes to make an oil painting effect.
	<b>Sketch</b>	Uses hand drawing effect to emphasize the outlines in the photo.
	<b>Color Accent</b>	Highlight the subject by keeping one color domain of an image only while making other regions black and white.

To select a filter mode:

1. Set the mode dial to .
2. Use the jog dial to select the desired filter mode.
3. Press  $\frac{OK}{Fn}$  to confirm the setting.




Slide the Zoom lever to  $\bullet T Q$  to view information on the selected filter mode.

4. Press the shutter halfway to set automatic focus.
5. Press the shutter to capture an image.


## Handheld Night Shot mode

Captures photos in a low-light environment, such as in the evening or at night. The camera takes a series of photos and then combines them to remove noise and blur effect caused by hand/camera shake.

1. Set the mode dial to .
2. Press the shutter halfway to set automatic focus.
3. Press the shutter to capture an image.

## Background Defocus mode

Captures photos that make a subject stand out against a blurred background.

1. Set the mode dial to .
2. Press the shutter halfway to set automatic focus.
3. Press the shutter to capture an image.



The background defocus may not work properly if:

- the subject is moving.
- the subject is too far from the camera.
- the shooting environment is too bright or too dark.

## Continuous Burst mode

Continuously takes pictures as long as you keep pressing the shutter.



The flash mode is not available in this mode.

1. Set the mode dial to .
2. Press and hold the shutter to capture continuous shots.

The shooting ends when the shutter is released, card full, or the battery is exhausted.

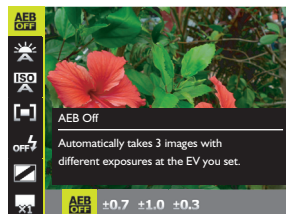
# More on the capture mode

## Using the Function menu

Press  $\frac{OK}{Fn}$  to access more capture options. Depending on your settings, the displayed option icons in the Function menu may vary.

To use the Function menu:

1. Press  $\frac{OK}{Fn}$  to enter the Function menu, the currently selected settings are shown.
2. Press  $| \square |$  or  $\odot$  to select a menu item.
3. Use the wheel dial or press  $\updownarrow$  or  $\leftarrow \rightarrow$  to select a setting.
4. Press  $\frac{OK}{Fn}$  to confirm the setting.



## AEB (Auto Exposure Bracketing)

Automatically takes 3 pictures with slightly different exposures at the EV you set.








Icon	Description	Icon	Description
<b>AEB OFF</b>	Function is disabled.	<b>±0.3</b>	Camera varies exposure by 0, -0.3, and +0.3 for three shots.
<b>±0.7</b>	Camera varies exposure by 0, -0.7, and +0.7 for three shots.	<b>±1.0</b>	Camera varies exposure by 0, -1.0, and +1.0 for three shots.

To select an EV setting for AEB photography:




1. Press  $\frac{OK}{Fn}$  > **AEB**.
2. Use the wheel dial or press  $\updownarrow$  or  $\leftarrow \rightarrow$  to select an EV setting.
3. Press  $\frac{OK}{Fn}$  to confirm.

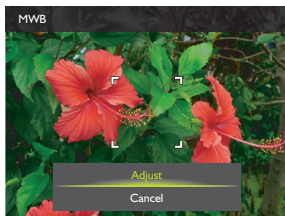
## White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.

Icon	Mode	Description
	<b>Auto</b>	Adjusts white balance automatically.
	<b>Daylight</b>	Used in bright daylight conditions.
	<b>Cloudy</b>	Used in twilight or shady conditions.
	<b>Tungsten</b>	Used when subjects lit by tungsten (incandescent) lighting.
	<b>Fluorescent High</b>	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash.
	<b>Fluorescent Low</b>	
	<b>MWB</b>	Used when you want to manually adjust white balance in a particular lighting condition.

To select White Balance:

1. Press  $\frac{OK}{Fn}$  > **White Balance**.
2. Use the wheel dial or press  or  to select a white balance option.  
When selecting the **MWB** mode:
  - Point the camera at a blank sheet of white paper or something similar.
  - Press  $\square$  or  to select **Adjust**. The camera will automatically detect the proper colors.
3. Press  $\frac{OK}{Fn}$  to confirm setting.





## ISO




ISO configures the camera sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

Icon	Description
<b>AUTO</b>	Automatically sets the ISO value.
<b>100~ 3200</b>	Automatically sets the ISO value within the range (maximum to ISO 3200) to suit the recording environment.
<b>100/200</b>	Equivalent to color ISO 100/200 film. Used for fine weather condition or portrait shooting.
<b>400/800</b>	Equivalent to color ISO 400/800 film. Used for cloudy or twilight shooting.
<b>1600/3200/ 6400</b>	Equivalent to color ISO 1600/3200/6400 film. Used for night scene or sports shooting.

To select an ISO value:

1. Press  $\frac{OK}{Fn} > ISO$ .
2. Use the wheel dial or press  or  to select an ISO Value.
3. Press  $\frac{OK}{Fn}$  to confirm setting.

## Metering

Icon	Mode	Description
	<b>Cen. Weight</b>	Detects the exposure of the entire shooting screen, but gives more importance to the values near the center.
	<b>Matrix</b>	Detects the exposure based on multiple points in the subject area.
	<b>Spot</b>	Detects the exposure based on the center spot in the subject area.

To select a metering option:

1. Press  $\frac{OK}{Fn} > \text{Metering}$ .
2. Use the wheel dial or press  or  to select a metering option.

3. Press  $\frac{OK}{Fn}$  to confirm setting.

## Flash EV








Adjust the flash strength based on the EV setting that you set.

To select an EV setting for flash photography:

1. Press  $\frac{OK}{Fn}$  > **Flash EV**.
2. Use the wheel dial or press  or  to select a flash strength option.
3. Press  $\frac{OK}{Fn}$  to confirm setting.

## Color Mode

Adds color filter effects to the image or video you want to capture.

Icon	Mode	Description
	<b>Normal</b>	No effects are added.
	<b>Sepia</b>	Adds an effect with dark reddish brown color tones, so the image or video looks as if it is old.
	<b>Black and White</b>	Adds an effect with monochromatic color tones.
	<b>Vivid</b>	Adds an effect with very clear and bright color tones.
	<b>Vivid Red</b>	The image becomes reddish.
	<b>Vivid Green</b>	The image becomes greenish.
	<b>Vivid Blue</b>	The image becomes bluish.






To select an effect:

1. Press  $\frac{OK}{Fn}$  > **Color Mode**.
2. Use the wheel dial or press  or  to select a color mode option.
3. Press  $\frac{OK}{Fn}$  to confirm setting.





## Continuous Shooting mode

In this mode, you can take consecutive shots.



Icon	Mode	Description
	<b>Single</b>	Takes one picture at a time.
	<b>Continuous</b>	Continuously takes pictures as long as you keep pressing the shutter. Each captured picture needs AF (auto-focus).
	<b>Continuous Burst</b>	Continuously takes pictures as long as you keep pressing the shutter. Only the first captured picture needs AF (auto-focus).
	<b>Multi-shot 16</b>	Takes 16 shots at 30 fps and combines them as a single photo.
	<b>Speedy Burst 120 fps</b>	Captures 60 shots instantly at different shutter speeds (about 1/125s or faster).

To select a continuous mode:

1. Press  $\frac{OK}{Fn}$  > **Continuous Shooting**.
2. Use the wheel dial or press  or  to select a continuous shooting option.
3. Press  $\frac{OK}{Fn}$  to confirm setting.

## Multi-shot 16

Captures 16 shots at 30 fps and combines them on a single picture.

1. Press  $\frac{OK}{Fn}$  > **Continuous Shooting**.
2. Use the wheel dial or press  or  to select **Multi-shot 16**.
3. Press  $\frac{OK}{Fn}$  to confirm setting.

## 4. Press the shutter to capture 16 shots.

The captured images are displayed as one 16-thumbnail photo.



Before



After

## Speedy Burst 120fps

Captures 60 shots instantly at different shutter speed (about 1/125 s or faster).









1. Press  $\frac{OK}{Fn}$  > **Continuous Shooting**.
2. Use the wheel dial or press or to select **Speedy Burst 120fps**.
3. Press  $\frac{OK}{Fn}$  to confirm setting.
4. Press the shutter to capture continuous shots. Shooting ends when the camera reaches the maximum number of photos.



The image size is automatically set to QVGA (640 x 480).

## Using the Camera Menu

Press **MENU** to access more capture options. Depending on your settings, the displayed option icons in the Camera menu may vary.







1. Press **MENU** > .
2. Use the wheel dial or press  or  to select a menu item.
3. Press  or  to enter the submenu.
4. Use the wheel dial or press  or  to select the settings.
5. Press  > **MENU** to save the setting and exit the menu mode.





## Resolution

Icon	Description	Icon	Description
<b>14M</b>	14 megapixels (4288 x 3216)	<b>2M</b>	2 megapixels (1600 x 1200)
<b>8M</b>	8 megapixels (3264 x 2448)	<b>VGA</b>	VGA (640 x 480)
<b>4M</b>	4 megapixels (2304 x 1728)	<b>HD 16:9</b>	16:9 (4320 x 2430)






To select an image size:

1. Press **MENU** >  > **Resolution**.
2. Press  or  to enter the submenu.
3. Use the wheel dial or press  or  to select a setting.
4. Press  to confirm setting.

## Quality

Icon	Description	Icon	Description
	<b>Super Fine</b>		<b>Fine</b>

To select an image quality:







1. Press **MENU** >  > **Quality**.
2. Press  or  to enter the submenu.
3. Use the wheel dial or press  or  to select a setting.

4. Press  $\frac{OK}{Fn}$  to confirm setting.

## AF Area

Determines the area on which the camera focuses.





To set the AF area:

1. Press **MENU** >  > **AF Area**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press , , , or  to specify the AF area.
4. Use the jog dial to switch the AF frame size (multi or single).
5. Press  $\frac{OK}{Fn}$  to confirm setting.

## Digital Zoom

Enlarges or shrinks the image using a software process.





To enable the digital zoom:

1. Press **MENU** >  > **Digital Zoom**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Digital Zoom**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## AF Assist Lamp

Adds extra light when the lighting is insufficient while capturing images.





To enable the AF assist lamp:

1. Press **MENU** >  > **AF Lamp**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Auto**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## O.I.S. (Optical Image Stabilizer)

Reduces blur caused by camera vibration, and thus improves image quality and clearness.





To set the O.I.S.:

1. Press **MENU** >  > **O.I.S.**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **On** or **Off**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Sharpness

Sets the sharpness level of the image that will be captured.





To set the sharpness:

1. Press **MENU** >  > **Sharpness**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Hard**, **Standard**, or **Soft**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Saturation

Sets the saturation level of the image that will be captured.





To set the saturation:

1. Press **MENU** >  > **Saturation**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **High**, **Standard**, or **Low**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Contrast

Sets the contrast level of the image that will be captured.





To set the contrast:

1. Press **MENU** >  > **Contrast**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **High**, **Standard**, or **Low**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Date Stamp

Imprints the date when a picture was taken on the picture itself.





To set the date stamp:

1. Press **MENU** >  > **Date Stamp**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Date**, **Date & Time**, or **Off**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Instant Review

Displays a preview of the still image for 1 second right after capturing it.





To set the instant review:

1. Press **MENU** >  > **Instant Review**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **On** or **Off**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Motion Detection

Reduces the effects of moving object and camera shake when taking a picture.




To enable the motion detection:

1. Press **MENU** >  > **Motion Detection**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Auto**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Q Key





Customizes the Q key usage for specific shooting mode. See "[Q key](#)" on page [29](#).

## More on the playback mode





Press  to switch to **Playback** mode. When the camera is in **Playback** mode, press  or  to view the next/previous recorded file. You can also select any of the following options.

### Enlarging an image

Magnifies an image, so more details can be seen.

1. Press  to switch to **Playback** mode.
2. Use the wheel dial or press  or  to select the image you want to enlarge.
3. Slide the **Zoom** lever to  to zoom-in on a captured image.



In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.

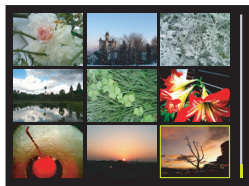
4. Press , , , or  to move to the area you want to view.



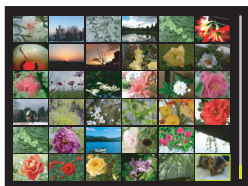
### Viewing multiple files at a time

Shows up to multiple files at a time on the screen.

1. Press  to switch to **Playback** mode.
2. Slide the **Zoom** lever to  W● repeatedly to switch to different thumbnail/calendar view.








3x3 thumbnail view



6x6 thumbnail view






Calendar view

3. Press , , , or  to select a file, and then press  to view it in full screen.










## Playing back a panorama image

To playback the panorama image, do the following:



1. Press  to switch to **Playback** mode.
2. Use the wheel dial or press  or  to select the panorama image you want to play.

To enlarge the image:


Slide the **Zoom** lever to  to zoom-in on a captured image. In Zoom mode, use the **Zoom** lever to adjust the zoom ratio and press  or  to move to the area you want to view.

3. Press  to start the image playback.
  - Press  to stop the playback.
  - Press  to pause it. Press  again to resume.






During the playback, press and hold  to fast forward or press and hold  to rewind.

To play back a voice memo:

1. In **Playback** mode, select the voice memo that you want to play.
2. Press  to play the voice memo.
 

To adjust the volume:

  - To increase the volume, slide the **Zoom** lever to .
  - To decrease the volume, slide the **Zoom** lever to .
3. Press  again to stop the playback.

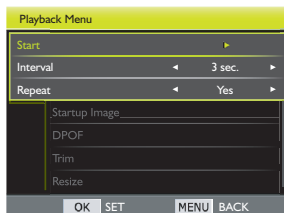
## Deleting files

Deletes one, selected, or all files (photos or videos) or delete voice memo attached on the files. See ["Deleting files" on page 32](#) for details.

## Slideshow playback

Sets the time interval for presenting a series of captured image and video files (first frame only).

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **Slide Show**.
3. Press  $\frac{OK}{Fn}$  or to enter the submenu.
4. Change the slideshow settings.
  - Use the wheel dial or press or to select **Interval**, and press or to set the transition interval between 1/3/5 seconds.
  - Use the wheel dial or press or to select **Repeat**, and press or to select whether you want to repeat the slideshow.
5. Use the wheel dial or press or to select **Start** and press  $\frac{OK}{Fn}$  to play the slideshow.
6. Press  $\frac{OK}{Fn}$  again to stop the slideshow.



## Protecting files

Prevents selected files from accidental removal.

To protect a single file:

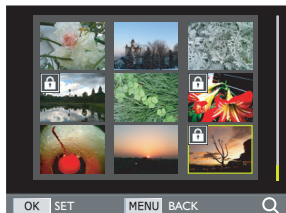
1. Press to switch to **Playback** mode.
2. Use the wheel dial or press or to select the file that you want to protect.
3. Press **MENU** > > **Protect**.
4. Press  $\frac{OK}{Fn}$  or to enter the submenu.
5. Use the wheel dial or press or to select **Single** and press  $\frac{OK}{Fn}$ .
6. A confirmation message appears on the screen. Press or to select **Set** and press  $\frac{OK}{Fn}$  to confirm file protection.



- A icon appears on the protected file.
- Repeat Step 2~6 to protect other files.

### To protect multiple files:

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **Protect**.
3. Press  $\frac{OK}{Fn}$  or to enter the submenu.
4. Use the wheel dial or press or to **Select** and press  $\frac{OK}{Fn}$ .  
The images are displayed in thumbnail view.
5. Use the wheel dial or press , , , or to locate the file you want to protect.
6. Press  $\frac{OK}{Fn}$  to mark the file. A icon appears on the marked files.

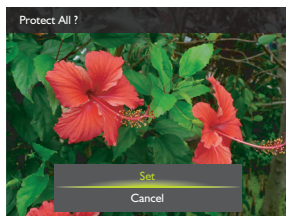


- If the icon does not appear on the thumbnail images, this indicates the files are not protected.
- Slide the Zoom lever to T Q to view the image in full screen. Slide the Zoom lever to W ● to return to thumbnail view.

7. When the file selection is complete, press **MENU**.

### To protect all files:

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **Protect**.
3. Press  $\frac{OK}{Fn}$  or to enter the submenu.
4. Press or to select **Lock All** and press  $\frac{OK}{Fn}$ .
5. A confirmation message appears on the screen. Use the wheel dial or press or to select **Set** and press  $\frac{OK}{Fn}$  to confirm file protection.










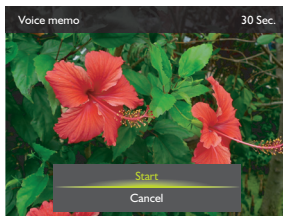
- You can remove the protection anytime by following the same procedure as shown above. Note that in Step 4 select **Unlock All** to unlock all files.


## Attaching voice memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. Press  to switch to **Playback** mode.
2. Use the wheel dial or press  or  to select the image you want to add a voice memo.
3. Press **MENU** >  > **Voice Memo**.
4. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
5. Press  or  to select **Start** and press  $\frac{OK}{Fn}$  to start voice recording.  
During audio recording, press  $\frac{OK}{Fn}$  to stop recording.

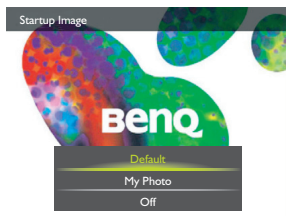


- The maximum audio recording time is 30 seconds.
- A  icon appears on the file that is attached with voice memo.

## Setting startup image

You can customize the startup image. This image is displayed on the screen every time you turn on the camera.

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **Startup Image**.
3. Press or to enter the submenu.
4. Use the wheel dial or press or to select the setting:
  - **Default:** uses the default startup image.
  - **My Photo:** sets one of your captured image as the startup image. Press or to select the image that you want to use.
  - **Off:** disables this feature.
5. Press to confirm.

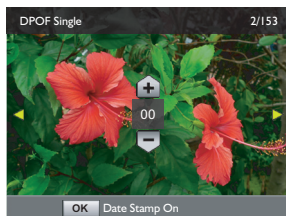


## Setting DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

To set up DPOF on a single file:

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **DPOF**.
3. Press or to enter the submenu.
4. Use the wheel dial or press or to select **Single** and press .
5. Press or to select the files that you want to mark for printing.
6. Use the wheel dial or press or to specify the number of copies.

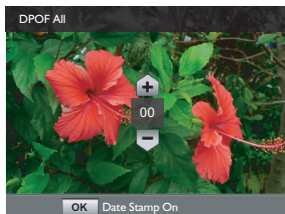


Slide the Zoom lever to to select whether you want to print the date stamp.

7. Press to confirm the setting.

To set up DPOF on all files:

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **DPOF**.
3. Press  $\frac{OK}{Fn}$  or to enter the submenu.
4. Use the wheel dial or press or to select **All** and press  $\frac{OK}{Fn}$ .
5. Use the wheel dial or press or to specify the number of copies.
6. Press  $\frac{OK}{Fn}$  to confirm the setting.



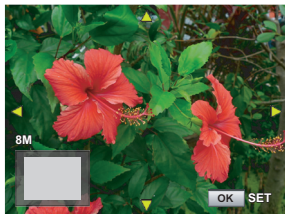
To reset DPOF:

1. Press to switch to **Playback** mode.
2. Press **MENU** > > **DPOF**.
3. Press  $\frac{OK}{Fn}$  or to enter the submenu.
4. Use the wheel dial or press or to select **Reset** and press  $\frac{OK}{Fn}$  to clear all DPOF settings.

## Trimming an image

Crops part of an image file and saves it as another new file.

1. Press to switch to **Playback** mode.
2. Use the wheel dial or press or to select the image you want to trim.
3. Press **MENU** > > **Trim**.
4. Press  $\frac{OK}{Fn}$  or to enter the submenu.
5. Use the **Zoom** lever to set the image size.
  - Slide the Zoom lever to repeatedly to toggle the following image size (reduce the image size): 8M / 4M / 2M / VGA.
  - Slide the Zoom lever to repeatedly to toggle the following image size (increase the image size): VGA / 2M / 4M / 8M.
6. Press , , , or to locate the area you want to trim.
7. Press  $\frac{OK}{Fn}$  to trim the enlarged view.



- Use the wheel dial or press **|O|** or **☺** to select **Save as** and press **OK/Fn** to confirm and save the image file.

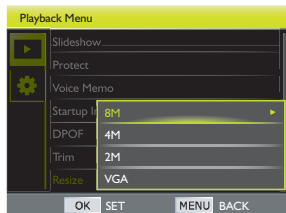


- The trimmed photos cannot be trimmed again.
- This function is not applicable to photos with 16:9 image size.

## Resizing an image

Changes an image file to a smaller size and saves it as another new file.

- Press **▶** to switch to **Playback** mode.
- Use the wheel dial or press **🌸** or **⚡** to select the image you want to resize.
- Press **MENU > ▶ > Resize**.
- Press **OK/Fn** or **⚡** to enter the submenu.
- Use the wheel dial or press **|O|** or **☺** to select the target image size to which you want to reduce and press **OK/Fn**.
- A confirmation message appears on the screen. Use the wheel dial or press **|O|** or **☺** to select **Save as** to confirm the change and save the image file.

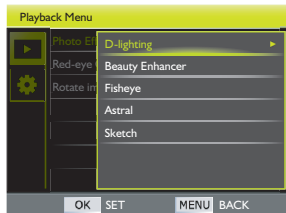


- The resize image is saved as a new file.
- Each photo can only be resized once.

## Adding photo effect

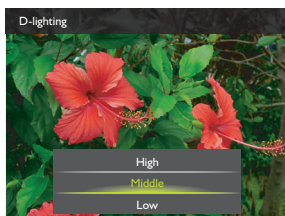
Edits an image file by adding a photo effect and saves it as another new file.

- Press **▶** to switch to **Playback** mode.
- Use the wheel dial or press **🌸** or **⚡** to select the image you want to add an effect to.
- Press **MENU > ▶ > Photo Effect**.
- Press **OK/Fn** or **⚡** to enter the submenu.
- Use the wheel dial or press **|O|** or **☺** to select the desired effect and press **OK/Fn** to confirm the selection.



If **D-lighting** or **Beauty Enhancer** is selected, use the wheel dial or press **|O|** or **☺** to select the desired effect level and press

**OK**  
**Fn**

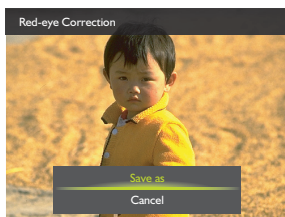


6. A confirmation message appears on the screen. Use the wheel dial or press **|O|** or **☺** to select **Save as** to confirm the change and save the image file.

## Removing red-eye

Removes the red-eye effect on the captured photos.












1. Press **▶** to switch to **Playback** mode.
2. Use the wheel dial or press **🌸** or **⚡** to select the image you want to edit.
3. Press **MENU** > **▶** > **Red-eye Correction**.
4. Press **OK**  
**Fn** or **⚡** to enter the submenu.
5. View the changes on the corrected image and press **OK**  
**Fn** to save the image.
6. A confirmation message appears on the screen. Use the wheel dial or press **|O|** or **☺** to select **Save as** to confirm the change and save the image file.

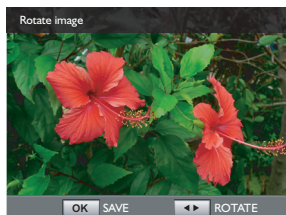




## Rotating an image

Changes the orientation of an image at 90° at a time.

1. Press  to switch to **Playback** mode.
2. Use the wheel dial or press  or  to select the image you want to rotate.
3. Press **MENU** >  > **Rotate image**.
4. Press  or  to enter the submenu.
5. Use the wheel dial or press  or  to rotate the image 90°.
  - To rotate the image 90° clockwise, press  or rotate the wheel dial to the right.
  - To rotate the image 90° counter-clockwise, press  or rotate the wheel dial to the left.
6. Press  to confirm the change and save the image file.



# Video recording and playback

## Recording videos

You can record video with this camera. Set the movie settings before you start recording a video. See ["Using the Movie Menu" on page 72](#) for details.

1. Press **●** to start recording.
2. Use the **Zoom** lever to zoom in/out on the subject.
3. Press **●** to stop the recording.



- Video recording at FHD 1080p / HD 720p will automatically stop when the video file size reaches near 4 GB or the total recording time reaches near 25 minutes.
- Digital zoom is not available while recording a video.

## Recording slow-motion videos


When the video size is set to 640 X 480p@120fps (1/4X, 3Mbps) or 1280x720p@60fps (1/2X, 8Mbps), the video is recorded at high speed.

The maximum recording length for:

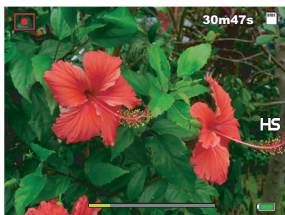
- 640 X 480p@120fps (1/4X, 3Mbps): 6 minutes 15 seconds.
- 1280x720p@60fps (1/2X, 8Mbps): 12 minutes 30 seconds.



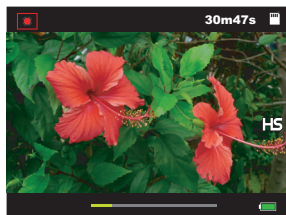
Sound is not recorded during slow-motion video recording.

1. Press **MENU** >  > **Movie Mode**.
2. Press **OK**/**Fn** or **⚡** to enter the submenu.
3. Use the wheel dial or press **|□|** or **☺** to select **640 X 480p@120fps (1/4X, 3Mbps)** or **1280x720p@60fps (1/2X, 8Mbps)**.
4. Press **OK**/**Fn** to confirm setting.
5. Press **MENU** to exit the menu mode.
6. Press **●** to start recording.

When recording with 1280x720p@60fps (1/2X, 8Mbps), the display aspect ratio is automatically set to 16:9.



640 X 480p@120fps  
(1/4X, 3Mbps)



1280x720p@60fps  
(1/2X, 8Mbps)





7. Press **●** again to stop the recording.

## Recording fast-motion videos

When the video size is set to 1920x1080p@15fps (2X, 18Mbps), the video is recorded at normal speed (up to 25 minutes). However, the playback is two times faster than the normal playback.








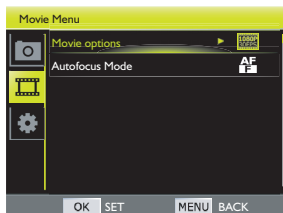
No sound is recorded.

1. Press **MENU** >  > **Movie Mode**.
2. Press **OK/Fn** or  to enter the submenu.
3. Use the wheel dial or press  or  to select **1920x1080p@15fps (2X, 18Mbps)**.
4. Press **OK/Fn** to confirm setting.
5. Press **MENU** to exit the menu mode.
6. Press **●** to start recording.  
The display aspect ratio is automatically set to 16:9.
7. Press **●** again to stop the recording.








## Using the Movie Menu

Press **MENU** to access Movie menu options. Set the necessary settings before you start recording the video clip.




1. Press **MENU** > .
2. Press **OK**/**Fn** or  to enter the Movie menu.
3. Use the wheel dial or press **|O|** or  to select a menu item.
4. Press **OK**/**Fn** or  to enter the submenu.
5. Use the wheel dial or press **|O|** or  to select the settings.
6. Press **OK**/**Fn** > **MENU** to save the setting and exit the menu mode.



## Movie options

Icon	Description	Icon	Description
	1920x1080p@30fps (18Mbps)		640 x 480p@120fps (1/4X, 3Mbps)
	1920x1080p@30fps (12Mbps)		1280x720p@60fps (1/2X, 8Mbps)
	1280x720p@30fps (8Mbps)		1920x1080p@15fps (2X, 18Mbps)
	640x480@30fps (3Mbps)	--	--

To select a movie size:

1. Press **MENU** >  > **Movie Mode**.
2. Press **OK**/**Fn** or  to enter the submenu.
3. Use the wheel dial or press **|O|** or  to select a setting.
4. Press **OK**/**Fn** to confirm setting.







Recording a video at Full HD and HD mode requires a Class 4 or above SDHC card and the longest recording time is 25 minutes.

## Autofocus Mode

Use this feature to control the auto focus method in recording videos.





To set the AF mode:

1. Press **MENU** >  > **Autofocus Mode**.
2. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
3. Use the wheel dial or press  or  to select **Single AF** or **Full-time AF**.
4. Press  $\frac{OK}{Fn}$  to confirm setting.

## Playing back video clips

View recorded video clips in the playback mode.

To view a video clip:

1. Press  to switch to **Playback** mode.
2. Press  or  to select the video clip you want to view.
3. Press  $\frac{OK}{Fn}$  to start playing the video clip.
  - To stop the playback, press .
  - To pause the playback, press  $\frac{OK}{Fn}$ . Press  $\frac{OK}{Fn}$  again to resume.
  - To adjust the volume, use the **Zoom** lever.

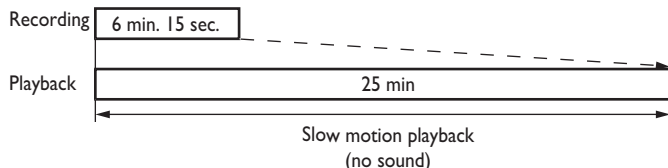


During the video playback, press and hold  to fast forward or press and hold  to rewind.

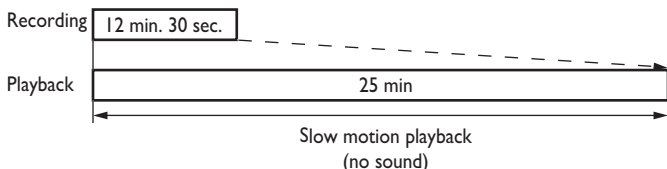
## Playing back slow-motion video clips

The recorded slow-motion videos (see ["Recording slow-motion videos"](#) on page 70) can be played back in slow motion at a speed of two/four times ( $1/2x$  or  $1/4x$ ) slower than normal speed.

### 640 X 480p@120fps (1/4X, 3Mbps)

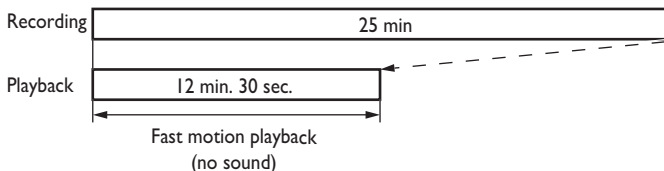


### 1280x720p@60fps (1/2X, 8Mbps)



## Playing back fast-motion video clips








The recorded fast-motion videos (see ["Recording fast-motion videos"](#) on page 71) can be played back in fast motion at two times ( $2x$ ) faster than normal playback speed.

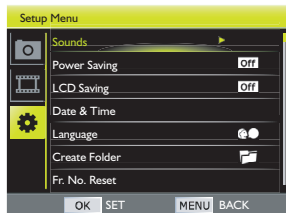


The normal playback speed at  $1x$ .

## Setup menu

Press **MENU** to access Setup menu options. Set the necessary settings before you start taking the picture or recording the video clip.


1. Press **MENU** > .
2. Press  $\frac{OK}{Fn}$  or  to enter the Setup menu.
3. Press  or  to select a menu item.
4. Press  $\frac{OK}{Fn}$  or  to enter the submenu.
5. Press  or  to select the settings.
6. Press  $\frac{OK}{Fn}$  > **MENU** to save the setting and exit the menu mode.



Menu item	Description (Submenu or available option)	
<b>Sounds</b>	<b>Startup</b>	Sets the startup sound on and off.
	<b>Shutter</b>	Sets the shutter sound on and off.
	<b>Beep Volume</b>	Adjusts the volume.
<b>Power Saving</b>	<b>1 min.</b>	For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.)
	<b>3 min.</b>	
	<b>5 min.</b>	
	<b>Off</b>	The camera remains on when idle.
<b>LCD Saving</b>	<b>On</b>	Automatically reduces the brightness level when the battery power is low.
	<b>Off</b>	The brightness level remains the same regardless of the battery power status.
<b>Date &amp; Time</b>	Sets the date and time. See <a href="#">"Setting date and time" on page 23.</a>	
<b>Language</b>	Selects a language for display menus and other information. See <a href="#">"Setting the OSD language" on page 23.</a>	

Menu item	Description (Submenu or available option)	
<b>Create Folder</b>	<b>Default</b>	Uses the default folder setting.
	<b>Monthly</b>	Automatically creates a new folder on a monthly basis.
	<b>Daily</b>	Automatically creates a new folder on a daily basis.
<b>File No. Reset</b>	<b>Yes</b>	Creates a new folder. The captured images are recorded to newly created folder from number 0001.
	<b>Cancel</b>	Continues the file numbering from the last recorded image file number.
<b>LCD Brightness</b>	<b>Auto</b>	Automatically sets the brightness level based on the surrounding environment.
	<b>High</b>	Increases the brightness level.
	<b>Normal</b>	Maintains the brightness level to the default setting.
<b>Manage Memory</b>	<b>Format</b>	Formats the internal memory or the memory card.
	<b>Copy to Card</b>	Copies your files from the camera's internal memory to a memory card.
<b>Auto Rotation</b>	<b>On</b>	Switches orientation automatically when rotating the LCD display.
	<b>Off</b>	Disables auto-rotation feature.



Menu item	Description (Submenu or available option)	
<b>TV setting</b>	<b>TV Format</b>	<p>Switches the video output according to different regional standards. Available settings:</p> <ul style="list-style-type: none"> <li>• <b>NTSC</b>: for America, Japan, Taiwan, and others.</li> <li>• <b>PAL</b>: for China, Europe, Oceania, and others.</li> </ul>
	<b>HDMI</b>	<p>Sets an image resolution for HDMI output. The available settings vary depending on the <b>TV Format</b> setting.</p> <ul style="list-style-type: none"> <li>• If the <b>TV Format</b> is set to <b>NTSC</b>, the available HDMI settings: <b>Auto / 480p / 720p / 1080i / 1080p</b>.</li> <li>• If the <b>TV Format</b> is set to <b>PAL</b>, the available HDMI settings: <b>Auto / 480P / 720p / 1080i / 1080p</b>.</li> </ul>
	<b>HDMI control</b>	<p>Sets the playback control on the TV.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>: Operate with the TV remote control.</li> <li>• <b>Off</b>: Operate with the camera.</li> </ul>
	 <b>TV Format</b> should be set to either <b>NTSC</b> or <b>PAL</b> depending on your region. For details about which system should be used, check with your local authorities.	
<b>Reset All</b>	<p>Resets the entire menu and button operation settings to initial default except the following settings:</p> <ul style="list-style-type: none"> <li>• <b>Date &amp; Time</b> setting</li> <li>• <b>Language</b> setting</li> <li>• <b>TV Format</b> setting</li> <li>• <b>Manual White Balance</b> setting</li> </ul>	
<b>Firmware Version</b>	Displays the firmware version of the camera.	

# Working with computer and AV system

## Bundled software

The camera offers the following programs on a CD.

ArcSoft MediaImpression™	Easily, creatively, and productively manage your multimedia files. Create your own movies or photo slide shows, and share your photo, video and music files easily through simple e-mail attachments or popular photo printing and video sharing websites.
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

To install these programs, see the information supplied with the CD.



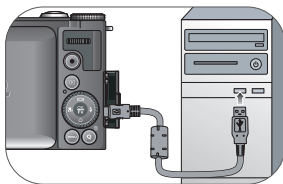
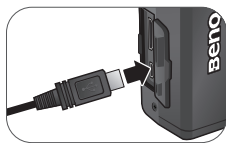
Please use QuickTime when playing video files recorded by G.I.  
(<http://www.apple.com/quicktime>)

## Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files as well as charge the camera.

To connect the camera to a computer:

1. Open the USB/HDMI port cover.
2. Connect the smaller plug end of the USB cable to the camera.
3. Turn on the camera.
4. Connect the other end of the USB cable to an available USB port on your computer.
5. Wait for the connection.
6. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.



When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

## Connecting the camera to an AV system

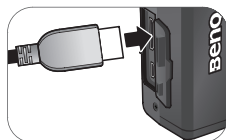
You can play files in your camera on a TV using an HDMI cable.



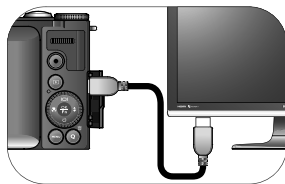
- Before connecting the camera to a TV, set the **TV Format** setting to match the TV's video output format. See ["TV setting" on page 77](#) for details.
- For details on changing the input source of the TV, refer to the TV's user's manual.
- Some TVs may not recognize the video format (1080p, 30fps). Please check the user manual that came with the TV for more assistance.

To connect the camera to a TV using HDMI cable:

1. Open the USB/HDMI port cover.
2. Connect one end of the HDMI cable to the camera.



3. Connect the other end of the HDMI cable to an HDMI TV.
4. Turn on the TV, and then switch the input source of the TV to "HDMI".
5. Turn on the camera, and operate the media playback using the camera control buttons.



**To operate the media playback with the TV remote control:**

1. Turn on the camera and set **HDMI control** to **On**. See ["HDMI control" on page 77](#).
2. Turn off the camera and connect the camera and TV with an HDMI cable.
3. Turn on the TV, and then switch the input source of the TV to "HDMI".
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV.



Some TVs may not work with the TV remote control even the on-screen instructions are displayed on the camera. If this occurs, set **HDMI control** to **Off** and operate using the camera.

## Printing images

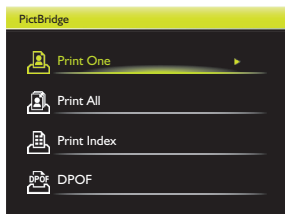
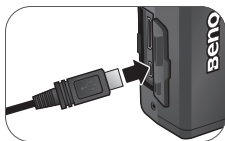
In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using PictBridge.

### Printing with PictBridge

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

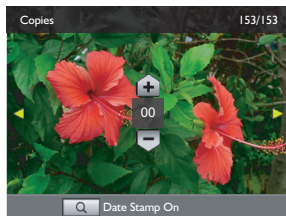
To print images from a PictBridge-compatible printer:

1. Open the USB/AV port cover.
2. Connect the smaller plug end of the USB cable to the camera.
3. Connect the other end of the USB cable to an available USB port on your printer.
4. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
5. Turn on the camera.
6. Wait for the connection.
7. On the PictBridge menu, select one of the following options:
  - **Print One:** Select to configure the printing settings on one specific image.
  - **Print All:** Select to print all images at a time.
  - **Print Index:** Select to configure the printing settings on the selected image.
  - **DPOF:** Select to print only the images with DPOF tag. See "[Setting DPOF](#)" on page 65 for details.



To set the printing settings on the specific file:

1. On the PictBridge menu, press **|O|** or **☺** to select **Print One** and press **OK/Fn** to select the files that you want to print.
2. Press **OK/Fn** to enter the printer settings.
  - Press **|O|** or **☺** to select **Copies**. Press **🌺** or **⚡** to select the file that you want to print and use the wheel dial or press **|O|** or **☺** to specify the number of copies.

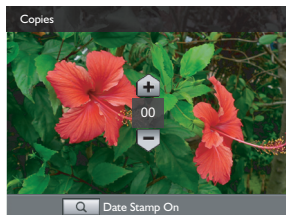


Slide the Zoom lever to **• T Q** to enable/disable Date Stamp.

- Press **|O|** or **☺** to select **Paper Size**, and press **🌺** or **⚡** to select the desired paper size.
  - Press **|O|** or **☺** to select **Quality**, and press **🌺** or **⚡** to select the desired print quality.
3. After all settings are complete, press **|O|** or **☺** to select **Print** and press **OK/Fn** to start printing.

To set the printing settings on the selected files:

1. On the PictBridge menu, press **|O|** or **☺** to select **Print Index** and press **OK/Fn** to select the files that you want to print.
2. Press **OK/Fn** to enter the printer settings.
  - Press **|O|** or **☺** to select **Copies**. Use the wheel dial or press **|O|** or **☺** to specify the number of copies.

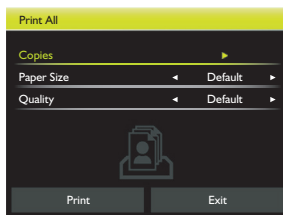


Slide the Zoom lever to **• T Q** to enable/disable Date Stamp.

- Press **|O|** or **☺** to select **Paper Size**, and press **🌸** or **⚡** to select the desired paper size.
  - Press **|O|** or **☺** to select **Quality**, and press **🌸** or **⚡** to select the desired print quality.
3. After all settings are complete, press **|O|** or **☺** to select **Print** and press **OK/Fn** to start printing.

To set the printing settings on all files:

1. On the PictBridge menu, press **|O|** or **☺** to select **Print All** and press **OK/Fn** to select the files that you want to print.
2. Press **OK/Fn** to enter the printer settings.
  - Press **|O|** or **☺** to select **Copies**. Use the wheel dial or press **|O|** or **☺** to specify the number of copies.



Slide the Zoom lever to **• T Q** to enable/disable Date Stamp.

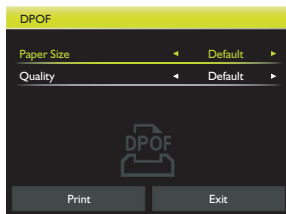
- Press **|O|** or **☺** to select **Paper Size**, and press **🌸** or **⚡** to select the desired paper size.
  - Press **|O|** or **☺** to select **Quality**, and press **🌸** or **⚡** to select the desired print quality.
3. After all settings are complete, press **|O|** or **☺** to select **Print** and press **OK/Fn** to start printing.

To print all files with DPOF tag:

1. On the PictBridge menu, press **|◻|** or **☺** to select **DPOF**.

2. Press **OK/Fn** to enter the printer settings.

- Press **|◻|** or **☺** to select **Paper Size**, and press **🍃** or **⚡** to select the desired paper size.
- Press **|◻|** or **☺** to select **Quality**, and press **🍃** or **⚡** to select the desired print quality.



3. After all settings are complete, press **|◻|** or **☺** to select **Print** and press **OK/Fn** to start printing.



- The above procedure may vary depending on the printer type you are using.
- If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
- Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

# Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
The camera cannot power up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Replace the battery.
The battery power is draining quickly.	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
	Continuous video recording.	
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The flash does not fire or recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.



Problem	Cause	Solution
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
I cannot download images from the camera to my computer.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Replace the battery.
The camera does not shoot even when pressing the shutter.	The battery is running low.	Replace the battery.
	The camera is not in the Capture mode.	Switch to the Capture mode.
	The shutter was not pressed all the way down.	Press the shutter all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Connect the camera to the printer, turn on the camera, and then select <b>Printer</b> .


## Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

<http://www.BenQ.com>

# Specifications

Sensor	Panasonic 14 Mega Pixels, 1/2.3 inch High Sensitivity CMOS
Zoom	Optical: 4.6X Digital: Up to 6X (Preview) / Up to 12X (Playback)
Lens	f = 4.3 (W) ~ 19.8 (T) mm F = 1.8 (W) ~ 4.9 (T) (f = 24 mm ~ 110 mm, 35 mm equivalent)
Focus Range	Normal: W = 30 cm ~ Infinity; T = 60 cm ~ Infinity; Macro: 3 cm ~ Infinity
LCD	3.0" LCD 920K pixels swivel LCD
Image Resolution	14M / 8M / 4M / 2M / VGA / 16:9
Movie Mode	FHD 1080p (1920 x 1080) 30fps / HD 720p (1280 x 720) 30fps / VGA (640 x 480) 30fps Continuous recording with sound Slow motion: VGA (640x480) 120fps / HD 720p (1280x720) 60 fps Fast motion: FHD 1080p (1920x1080) 15fps
Shutter Speed	Auto: 1/2000 ~ 2 sec. Manual mode: 1/2000 ~ 15 sec.
White Balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent H / Fluorescent L / Manual
Exposure	-2.0 ~ +2.0 EV (0.3EV / step)
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400
Flash	Auto Flash / Auto Anti Red-eye / Forced On / Slow Sync / Forced Off
Drive mode	Off / 10 sec. / 2 sec. / Smile detection
Power Source	CIPA approximately 260 (base on bundled Lithium-ion battery)
Storage Type	Built-in approx. 85MB (+-5%) SD (up to 4GB) / SDHC (up to 32GB) / SDXC (> 32GB)

File Format	Still Image: JPEG (EXIF 2.3 compatible); DCF compatible; Support DPOF Video: MOV Audio: WAV Sound: Stereo sound
Dimensions / Weight	114 x 62.5 x 25.5 mm 195g (w/o battery & SD card)
Interface	Digital output: USB 2.0 compatible Audio / Video output (NTSC/PAL) and HDMI PictBridge compatible
Accessories	USB Cable / Software & User Manual CD / Quick Guide / USB Adapter / Neck Strap (optional) / Pouch (optional) / Rechargeable Lithium-ion battery / AV cable   Available accessories depend on the actual items shipped and may vary from the list above.



All information, designs, and specifications are subject to change without prior notice.